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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,048	10/12/2004	Benoit Denizot	REGIM 3.3-039	6218
	7590 06/26/200 /ID, LITTENBERG,		EXAMINER	
KRUMHOLZ &	& MENTLIK		MAEWALL, SNIGDHA	
600 SOUTH AVENUE WEST WESTFIELD, NJ 07090			ART UNIT	PAPER NUMBER
			1612	
			MAIL DATE	DELIVERY MODE
			06/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/511,048	DENIZOT ET AL.		
Office Action Summary	Examiner	Art Unit		
	Snigdha Maewall	1612		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period vor Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) ■ Responsive to communication(s) filed on 25 Ju 2a) ■ This action is FINAL. 2b) ■ This 3) ■ Since this application is in condition for alloware closed in accordance with the practice under Example 2.	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 2-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 2-15 are subject to restriction and/or expressions.	wn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and all accomposed and all all all all all all all all all al	epted or b) objected to by the Edrawing(s) be held in abeyance. See iion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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DETAILED ACTION

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Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 8-13 are drawn to an oral hygiene composition comprising a polyphosphonate with formula I.

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Wherein:

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R1, R2, R3, R5, R6, R7, R8 represent an atom of hydrogen or an alkyl or aryl group in C1 - C6, independently of each other;

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X is a carbon C atom or a nitrogen N atom;

A represents an alkyl or aryl group in Cl - C6, a carbonyl group or a hydrophilic group, B and C represent a chemical bond, an alkyl or aryl group in Cl - C6, a carbonyl group, or a hydrophilic group; and

R4 represents:

a hydrogen atom, an OH group, an alkyl or an aryl group in Cl - C6, or a carboxylic acid in Cl - C6, a free doublet (if X is a nitrogen N);

a phosphonate with formula:

in which R9, R10 represent a hydrogen atom, or an alkylor an aryl group in C1 - C6, independently of each other;

a quaternary ammonium group with formula:

in which R11, R12, R13 represent a hydrogen atom, or an alkyl or an aryl group in C1 - C6 independently of each other, and B represents a chemical bond, an alkyl group in C1 - C6, a carbonyl group or a hydrophilic group;

a hydrophilic group;

a polyphosphonate group with the following general formula II:

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wherein:

- R'1, R'2, R'3, R'5, R'6, R'7, R'8 represent an atom of hydrogen, or an alkyl or an aryl group in C1 - C6, independently of each other;

- X' is a C atom or an N atom;

- A', B' and C' represent a chemical bond, an alkyl or an aryl group in Cl C6, a carbonyl group, or a hydrophilic group;
- and R'4 represents an alkyl or an aryl group in C1 C6, or a carboxylic acid in C1 C6;
 - a mixture of such polyphosphonate compounds; or
 - a pharmaceutically acceptable salts, thereof.

Group II, claims 14, 2-7 and 15 are drawn to a method of inhibiting the appearance and development of dental plaque.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Due to the numerous variables such as R, X, A B and C divergent meanings and the numerous uses, a precise listing of inventive groups cannot be made.

The claims herein lack unity of invention under PCT Rule 13.1 and 13.2 since the compounds defined in the claims lack a significant structural element qualifying as the special technical feature that defines a contribution over the prior art. The composition claimed contains polyphosphonate composition and method. The substituents vary structure extensively and when taken as a whole result in vastly different compounds. Additionally, prior art USP 4,208, 401 and WO 93 24498 disclose compounds with similar structures.

In the event of any election of either Groups I or II, applicants are required to elect a single compound with specific substituents.

Because these inventions lack unity of invention for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is *presented prior to* final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are

governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be **allowable**, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b).

Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

This restriction requirement is being written as previous experience has indicated that with Foreign applicants and the inherent time delays, applicants' representative is better able to make an informed, correct, election of the invention applicants would wish to have prosecuted here if applicants are given the opportunity to see the restriction requirement laid out, and given the time to make an informed decision.

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Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Snigdha Maewall whose telephone number is (571)-272-6197. The examiner can normally be reached on Monday to Friday; 8:30 a.m. to 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Krass Frederick can be reached on (571) 272-0580. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Snigdha Maewall/ Examiner, Art Unit 1612

/Gollamudi S Kishore, Ph.D/ Primary Examiner, Art Unit 1612